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*Admitted only in Maryland
*Admitted only in Virginia
*Practice Limited to
Federal Agencies

October 13, 2004

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Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Mail Stop: Amendment

Re: U.S. Utility Patent Application
Appl. No.: 10/633,699; Filed: August 5, 2003
For: **Glycosylation Engineering of Antibodies for Improving Antibody-
Dependent Cellular Cytotoxicity**
Inventors: Pablo UMAÑA *et al.*
Our Ref: 1975.0010004/TJS

Sir:

Transmitted herewith for appropriate action are the following documents:

1. Information Disclosure Statement;
2. A listing of the cited documents on Form PTO-1449 (50 pages);
3. Copies of cited documents (AL1, AK1, AR45 and AS45); and
4. One (1) return postcard.

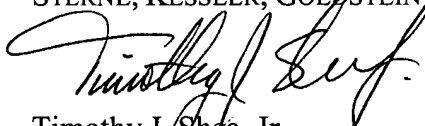
It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier. In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

Commissioner for Patents
October 13, 2004
Page 2

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

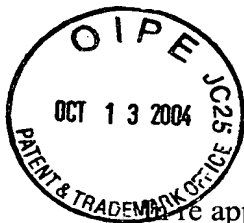
STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Timothy J. Shea, Jr.
Attorney for Applicants
Registration No. 41,306

TJS/AWL:ddc
Enclosures

321993_1.DOC



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

is application of:

Pablo UMAÑA *et al.*

Appl. No.: 10/633,699

Filed: August 5, 2003

For: **Glycosylation Engineering of
Antibodies for Improving Antibody-
Dependent Cellular Cytotoxicity**

Confirmation No.: 5489

Art Unit: 1646

Examiner: To Be Assigned

Atty. Docket: 1975.0010004/TJS

Information Disclosure Statement

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Sir:

Listed on accompanying Form PTO-1449 (50 sheets) are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. Copies of documents **AL1**, **AK1**, **AR45**, and **AS45** are included.

It is brought to the Examiner's attention that document **AL1**, PCT Patent Publication No. WO 94/11026, has replaced document **AN1**, European Patent Publication No. EP 0 669 836 B1, which was submitted to the Office in an IDS that complies with 37 C.F.R. § 1.98(b)(4) in Application No. 09/294,584, filed April 20, 1999.

A copy of document **AJ1** is not provided in accordance with the U.S. Patent and Trademark Office pre-OG notice of July 11, 2003, which states "[t]he Office hereby waives the requirement under 37 CFR 1.98 (a)(2)(i) for submitting a copy of each cited U.S. patent and each U.S. patent application publication for all U.S. national patent applications filed after June 30, 2003."

Copies of all other documents were cited by or submitted to the Office in an IDS that complies with 37 C.F.R. § 1.98(a)-(c) in Application No. 09/294,584, filed April 20, 1999, which is relied upon for an earlier filing date under 35 U.S.C. § 120. Thus, copies of these documents are not attached. 37 C.F.R. § 1.98(d).

The Examiner's attention is directed to the following co-pending U.S. Patent Applications, which are directed to related technical subject matter: U.S. Patent Application No. 2004/0072290 A1, Umaña *et al.*, filed May 14, 2003, published April 15, 2004 and submitted herewith as document **AK1**; and U.S. Patent Application No. 10/633,697, Umaña *et al.*, filed August 5, 2003 and submitted herewith as document **AR45**.

The identification of these U.S. Patent Applications is not to be construed as a waiver of secrecy as to these applications now or upon issuance of the present application as a patent. The Examiner is respectfully requested to consider the cited applications and the art cited therein during examination.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached Form PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

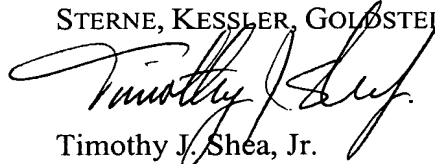
This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits. No statement or fee is required.

It is respectfully requested that the Examiner initial and return a copy of the enclosed Form PTO-1449, and indicate in the official file wrapper of this patent application that the documents have been considered. The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Timothy J. Shea, Jr.
Attorney for Applicants
Registration No. 41,306

Date: October 13, 2004

1100 New York Avenue, N.W.
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FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1975.0010004/TJS	APPLICATION NO. 10/633,699
	APPLICANT Umaña et al.	
	FILING DATE August 5, 2003	GROUP 1646

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA1	4,215,051	07/29/1980	Schroeder et al.			08/29/1979
	AB1	4,946,778	08/07/1990	Ladner et al.			01/19/1989
	AC1	5,047,335	09/10/1991	Paulson et al.			12/21/1988
	AD1	5,547,933	08/20/1996	Lin			06/07/1995
	AE1	5,736,137	04/07/1998	Anderson et al.			11/03/1993
	AF1	5,776,456	07/07/1998	Anderson et al.			06/07/1995
	AG1	5,843,439	12/01/1998	Anderson et al.			06/07/1995
	AH1	5,952,203	09/14/1999	Withers et al.			04/11/1997
	AI1	5,958,403	09/28/1999	Strom et al.			07/11/1994
	AJ1	2003/0175884 A1	09/18/2003	Umaña et al.			08/05/2002
	AK1	2004/0072290 A1	04/15/2004	Umaña et al.			05/14/2003

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL1	WO 94/11026 ✓	05/26/1994	WIPO			Yes No
	AM1	WO 95/24494	09/14/1995	WIPO			Yes No
	AN1	EP 0 669 836 B1	07/03/1996	Europe			Yes No
	AO1	EP 0 752 248 A1	01/08/1997	Europe			Yes No
	AP	WO 97/30087	08/21/1997	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
AR	<u>1</u>	Amstutz, H., et al., "Production and Characterization of a Mouse/Human Chimeric Antibody Directed Against Human Neuroblastoma," <i>Int. J. Cancer</i> 53:147-152, Wiley-Liss, Inc. (1993)	
AS	<u>1</u>	Anderson, W.F., "Human gene therapy," <i>Nature</i> 392:25-30, Nature Pub. Co. (1998)	
AT	<u>1</u>	Arathoon, W.R., and Birch, J.R., "Large-Scale Cell Culture in Biotechnology," <i>Science</i> 232:1390-1395, American Association for the Advancement of Science (1986)	

EXAMINER	DATE CONSIDERED
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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FOREIGN PATENT DOCUMENTS

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	2	Bailey, J.E., "Toward a Science of Metabolic Engineering," <i>Science</i> 252:1668-1675, American Association for the Advancement of Science (1991)
AS	2	Bailey, J.E., et al., "Engineering Glycosylation in Animal Cells," in <i>New Developments and New Applications in Animal Cell Technology</i> , Merten, O.W., et al., eds., Kluwer Academic Publishers, The Netherlands, pp.5-23 (1998)
AT	2	Bailey, J.E., et al., "Metabolic Engineering of N-Linked Glycoform Synthesis Systems in Chinese Hamster Ovary (CHO) Cells," in <i>Animal Cell Technology</i> , Carrondo, M.J.T., et al., eds., Kluwer Academic Publishers, The Netherlands, pp.489-494 (1997)

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	<u>3</u>	Bibila, T.A., and Flickinger, M.C., "A Model of Interorganelle Monoclonal Antibody Transport and Secretion in Mouse Hybridoma Cells," <i>Biotechnol. Bioeng.</i> 38:767-780, John Wiley & Sons, Inc. (1991)
	AS	<u>3</u>	Bibila, T.A., and Robinson, D.K., "In Pursuit of the Optimal Fed-Batch Process for Monoclonal Antibody Production," <i>Biotechnol. Prog.</i> 11:1-13, American Chemical Society and American Institute of Chemical Engineers (1995)
	AT	<u>3</u>	Bitter, G.A., "Heterologous Gene Expression in Yeast," <i>Meth. Enzymol.</i> 152:673-684, Academic Press, Inc. (1987)

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	AL						Yes No
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	<u>4</u>	Bitter, G.A., et al., "Expression and Secretion Vectors for Yeast," <i>Meth. Enzymol.</i> 153:516-544, Academic Press, Inc. (1987)
	AS	<u>4</u>	Bretscher, M.S., and Munro, S., "Cholesterol and the Golgi Apparatus," <i>Science</i> 261:1280-1281, American Association for the Advancement of Science (1993)
	AT	<u>4</u>	Briles, E.B., et al., "Isolation of Wheat Germ Agglutinin-resistant Clones of Chinese Hamster Ovary Cells Deficient in Membrane Sialic Acid and Galactose," <i>J. Biol. Chem.</i> 252:1107-1116, American Society for Biochemistry and Molecular Biology, Inc. (1977)

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	<u>5</u>	Brisson, N., et al., "Expression of a bacterial gene in plants by using a viral vector," <i>Nature</i> 310:511-514, Nature Pub. Co. (1984)
AS	<u>5</u>	Brockhausen, I., et al., "Control of glycoprotein synthesis. Characterization of (1→4)-N-acetyl-β-D-glucosaminyltransferases acting on the α-D-(1→3)- and α-D-(1→6)-linked arms of N-linked oligosaccharides," <i>Carbohydrate Res.</i> 236:281-299, Elsevier Science Publishers B.V. (1992)
AT	<u>5</u>	Broglie, R., et al., "Light-Regulated Expression of a Pea Ribulose-1,5-Biphosphate Carboxylase Small Subunit Gene in Transformed Plant Cells," <i>Science</i> 224:838-843, American Association for the Advancement of Science (1984)

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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	<u>6</u>	Campbell, C., and Stanley, P., "A Dominant Mutation to Ricin Resistance in Chinese Hamster Ovary Cells Induces UDP-GlcNAc:Glycopeptide β -4-N-Acetylglucosaminyltransferase III Activity," <i>J. Biol. Chem.</i> 261:13370-13378, American Society for Biochemistry and Molecular Biology, Inc. (1984)
	AS	<u>6</u>	Caruthers, M.H., et al., "New chemical methods for synthesizing polynucleotides," <i>Nuc. Acids Res. Symp. Series</i> 7:215-223, IRL Press Limited (1980)
	AT	<u>6</u>	Chow, F., et al., "Synthesis of oligodeoxyribonucleotides on silica del support," <i>Nuc. Acids Res.</i> 9:2807-2817, IRL Press Limited (1981)

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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	7	Cole, N.B., et al., "Diffusional Mobility of Golgi Proteins in Membranes of Living Cells," <i>Science</i> 273:797-801, American Association for the Advancement of Science (1996)
AS	7	Cole, S.P.C., et al., "The EBV-Hybridoma Technique and its Application to Human Lung Cancer," in <i>Monoclonal Antibodies and Cancer Therapy</i> , Reisfeld, R.A., and Sell, S., eds., Alan R. Liss, Inc., New York, NY, pp.77-96 (1985)
AT	7	Coruzzi, G., et al., "Tissue-specific and light-regulated expression of a pea nuclear gene encoding the small subunit of ribulose-1,5-biphosphate carboxylase," <i>EMBO J.</i> 3:1671-1679, IRL Press Limited (1984)

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>8</u>	Cote, R.J., et al., "Generation of human monoclonal antibodies reactive with cellular antigens," <i>Proc. Natl. Acad. Sci.</i> 80:2026-2030, The National Academy of Sciences (1983)
	AS	<u>8</u>	Crea, R., and Horn, T., "Synthesis of oligonucleotides on cellulose by a phosphotriester method," <i>Nuc. Acids Res.</i> 8:2331-2348, IRL Press Limited (1980)
	AT	<u>8</u>	Creighton, T.E., <i>Proteins: Structures and Molecular Principles</i> , W.H. Freeman and Co., New York, NY, pp.34-60 (1983)

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
AR	2	Cumming, D.A., "Glycosylation of recombinant protein therapeutics: control and functional implications," <i>Glycobiology</i> 1:115-130, Oxford University Press (1991)	
AS	2	Dörr, U., et al., "First Clinical Results with the Chimeric Antibody chCE7 in Neuroblastoma. Targeting Features and Biodistribution Data," <i>Eur. J. Nucl. Med.</i> 20:858, Springer International (1993)	
AT	2	Dennis, J.W., et al., " β 1-6 Branching of Asn-Linked Oligosaccharides Is Directly Associated with Metastasis," <i>Science</i> 236:582-585, American Association for the Advancement of Science (1987)	

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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>10</u>	Do, K-Y., "Modification of Glycoproteins by N-Acetylglucosaminyltransferase V Is Greatly Influenced by Accessibility of the Enzyme to Oligosaccharide Acceptors," <i>J. Biol. Chem.</i> 269:23456-23464, American Society for Biochemistry and Molecular Biology (1994)
	AS	<u>10</u>	Dunphy, W.G., and Rothman, J.E., "Compartmentation of Asparagine-linked Oligosaccharide Processing in the Golgi Apparatus," <i>J. Cell. Bio.</i> 97:270-275, Rockefeller University Press (1983)
	AT	<u>10</u>	Dunphy, W.G., et al., "Attachment of Terminal N-Acetylglucosamine to Asparagine-Linked Oligosaccharide Occurs in Central Cisternae of the Golgi Stack," <i>Cell</i> 40:463-472, MIT (1985)

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	APPLICANT Umaña et al.	
	FILING DATE August 5, 2003	GROUP 1646

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	AR	<u>11</u>	Dunphy, W.G., et al., "Early and late functions associated with the Golgi apparatus reside in distinct compartments," <i>Proc. Natl. Acad. Sci.</i> 78:7453-7457, The National Academy of Sciences (1981)
	AS	<u>11</u>	Dwek, R.A., "Glycobiology: More Functions for Oligosaccharides," <i>Science</i> 269:1234-1235, American Association for the Advancement of Science (1995)
	AT	<u>11</u>	Easton, E.W., et al., "Enzymatic Amplification Involving Glycosyltransferases Forms the Basis for the Increased Size of Asparagine-linked Glycans at the Surface of NIH 3T3 Cells Expressing the N-ras Proto-oncogene," <i>J. Biol. Chem.</i> 266:21674-21680, American Society for Biochemistry and Molecular Biology (1991)

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AR	<u>12</u>	Elices, M.J., and Goldstein, I.J., "Ehrlich Ascites Tumor Cell UDP-Gal:N-Acetyl-D-glucosamine β (1,4)-Galactosyltransferase," <i>J. Biol. Chem.</i> 263:3354-3362, American Society for Biochemistry and Molecular Biology, Inc. (1988)	
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AT	<u>12</u>	Fanger, M.W., et al., "Cytotoxicity mediated by human Fc receptors for IgG," <i>Immunol. Today</i> 10:92-99 (1989)	

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	AR	<u>13</u>	Field, M., et al., "The Use of High-Performance Anion-Exchange Chromatography and Matrix-Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry to Monitor and Identify Oligosaccharide Degradation," <i>Anal. Biochem.</i> 239:92-98, Academic Press, Inc. (1996)
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	AR	<u>14</u>	Goldberg, D.E., and Kornfeld, S., "Evidence for Extensive Subcellular Organization of Asparagine-linked Oligosaccharide Processing and Lysosomal Enzyme Phosphorylation," <i>J. Biol. Chem.</i> 258:3159-3165, American Society for Biochemistry and Molecular Biology, Inc. (1983)
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	AT	<u>14</u>	Gossen, M., et al., "Control of gene activity in higher eukaryotic cells by prokaryotic regulatory elements," <i>TIBTECH</i> 12:58-62, Elsevier Science Ltd. (1994)

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	AR	<u>15</u>	Graham, R.A., et al., "The polymorphic epithelial mucin: potential as an immunogen for a cancer vaccine," <i>Cancer Immunol. Immunother.</i> 42:71-80, Springer-Verlag (1996)
	AS	<u>15</u>	Grierson, D., and Covey, S.N., <i>Plant Molecular Biology</i> , 2nd edition, Blackie Publishing, London, GB, Chapters 7-9 (1988)
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	AR	<u>16</u>	Gross, H.J., et al., "A Highly Sensitive Fluorometric Assay for Sialyltransferase Activity Using CMP-9-fluoresceinyl-NeuAc as Donor," <i>Analyt. Biochem.</i> 186:127-134, Academic Press, Inc. (1990)
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	AT	<u>16</u>	Gurley, W.B., et al., "Upstream Sequences Required for Efficient Expression of a Soybean Heat Shock Gene," <i>Mol. Cell. Bio.</i> 6:559-565, American Society for Microbiology (1986)

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	AR	<u>17</u>	Haga, Y., et al., "Dose-Related Comparison of Antibody-Dependent Cellular Cytotoxicity with Chimeric and Native Murine Monoclonal Antibody 17-1A," <i>Int. J. Pancreatol.</i> 15:43-50, Humana Press Inc. (1994)
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	AR	<u>18</u>	Hirschberg, C.B., and Snider, M.D., "Topography of Glycosylation in the Rough Endoplasmic Reticulum and Golgi Apparatus," <i>Ann. Rev. Biochem.</i> 56:63-87, Annual Reviews Inc. (1987)
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	AR	<u>19</u>	Jenkins, N., and Curling, E.M.A., "Glycosylation of recombinant proteins: Problems and prospects," <i>Enzyme Microb. Technol.</i> 16:354-364, Butterworth-Heinemann (1994)
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	AR	<u>20</u>	Kagawa, Y., et al., "Comparative Study of the Asparagine-linked Sugar Chains of Natural Human Interferon- β 1 and Recombinant Human Interferon- β 1 Produced by Three Different Mammalian Cells," <i>J. Biol. Chem.</i> 263:17508-17515, American Society for Biochemistry and Molecular Biology, Inc. (1988)
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	AT	<u>20</u>	Koenig, A., "Selectin inhibition: synthesis and evaluation of novel sialylated, sulfated and fucosylated oligosaccharides, including the major capping group of GlyCAM-1," <i>Glycobiology</i> 7:79-93, Oxford University Press (1997)

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	AR	<u>21</u>	Kolber, M.A., et al., "Measurement of cytotoxicity by target cell release and retention of the fluorescent dye bis-carboxyethyl-carboxyfluorescein (BCECF)," <i>J. Immunol. Meth.</i> 108:255-264, Elsevier Science Publishers B.V. (1988)
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	AT	<u>21</u>	Kozbor, D., and Roder, J.C., "The production of monoclonal antibodies from human lymphocytes," <i>Immunol. Today</i> 4:72-79, Elsevier Biomedical Press (1983)

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	FILING DATE August 5, 2003	GROUP 1646

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	AN						Yes No
	AO						Yes No
	AP						Yes No

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	AR	<u>25</u>	Moremen, K.W., et al., "Glycosidases of the asparagine-linked oligosaccharide processing pathway," <i>Glycobiology</i> 4:113-125, Oxford University Press (1994)
	AS	<u>25</u>	Morgan, A., et al., "The N-terminal end of the C _H 2 domain of chimeric human IgG1 anti-HLA-DR is necessary for C1q, FcγRI and FcγRIII binding," <i>Immunol.</i> 86:319-324, Blackwell Science Ltd. (1995)
	AT	<u>25</u>	Morrison, S.L., et al., "Chimeric human antibody molecules: Mouse antigen-binding domains with human constant region domains," <i>Proc. Natl. Acad. Sci.</i> 81:6851-6855, National Academy of Sciences (1984)

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	AR	<u>26</u>	Narasimhan, S., "Control of Glycoprotein Synthesis," <i>J. Biol. Chem.</i> 257:10235-10242, American Society for Biochemistry and Molecular Biology, Inc. (1982)
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	AT	<u>26</u>	Naven, T.J.P., and Harvey, D.J., "Effect of Structure on the Signal Strength of Oligosaccharides in Matrix-assisted Laser Desorption/Ionization Mass Spectrometry on Time-of-flight and Magnetic Sector Instruments," <i>Rapid Commun. Mass Spectrom.</i> 10:1361-1366, John Wiley & Sons, Ltd. (1996)

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	AR	<u>27</u>	Neuberger, M.S., et al., "Recombinant antibodies possessing novel effector functions," <i>Nature</i> 312:604-608, Nature Pub. Co. (1984)
	AS	<u>27</u>	Nilsson, T., et al., "Kin recognition between medial Golgi enzymes in HeLa cells," <i>EMBO J.</i> 13:562-574, Oxford University Press (1994)
	AT	<u>27</u>	Nilsson, T., et al., "Overlapping Distribution of Two Glycotransferases in the Golgi Apparatus of HeLa Cells," <i>J. Cell Biol.</i> 120:5-13, Rockefeller University Press (1993)

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	AS	<u>29</u>	Pâquet, M.R., et al., "Branch Specificity of Purified Rat Liver Golgi UDP-galactose:N-Acetylglucosamine β -1,4-Galactosyltransferase," <i>J. Biol. Chem.</i> 259:4716-4721, American Society for Biochemistry and Molecular Biology, Inc. (1984)
	AT	<u>29</u>	Page, M.J., and Sydenham, M.A., "High Level Expression of the Humanized Monoclonal Antibody CAMPATH-1H in Chinese Hamster Ovary Cells," <i>Biotechnology</i> 9:64-68, Nature Pub. Co. (1991)

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	AR	<u>30</u>	Palcic, M.M., et al., "Regulation of N-Acetylglucosaminyltransferase V Activity," <i>J. Biol. Chem.</i> 265:6759-6769, American Society for Biochemistry and Molecular Biology, Inc. (1990)
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	AT	<u>30</u>	Pels Rijcken, W.R., et al., "The effect of increasing nucleotide-sugar concentrations on the incorporation of sugars into glycoconjugates in rat hepatocytes," <i>Biochem. J.</i> 305:865-870, UK Biochemical Society (1995)

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	AR	<u>31</u>	Rabouille, C., et al., "Mapping the distribution of Golgi enzymes involved in the construction of complex oligosaccharides," <i>J. Cell Sci.</i> 108:1617-1627, The Company of Biologists Limited (1995)
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	AT	<u>31</u>	Rearick, J.I., et al., "Enzymatic Characterization of β -Galactoside $\alpha 2 \rightarrow 3$ Sialyltransferase from Porcine Submaxillary Gland," <i>J. Biol. Chem.</i> 254:4444-4451, American Society for Biochemistry and Molecular Biology, Inc. (1979)

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	AR	<u>33</u>	Rogers, S.G., et al., "Gene Transfer in Plants: Production of Transformed Plants Using Ti Plasmid Vectors," in <i>Methods for Plant Molecular Biology</i> , Weissbach, A., and Weissbach, H., eds., Academic Press, Inc., San Diego, CA, pp.423-463 (1988)
	AS	<u>33</u>	Roman, H., "Development of Yeast as an Experimental Organism," in <i>The Molecular Biology of the Yeast Saccharomyces, Life Cycle and Inheritance</i> , Strathern, J.N., et al., eds., Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY, pp.1-9 (1981)
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	AR	<u>34</u>	Rothman, J.E., and Wieland, F.T., "Protein Sorting by Transport Vesicles," <i>Science</i> 272:227-234, American Association for the Advancement of Science (1996)
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	AT	<u>34</u>	Russo, R.N., et al., "β1,4-Galactosyltransferase: A Short NH ₂ -terminal Fragment That Includes the Cytoplasmic and Transmembrane Domain Is Sufficient for Golgi Retention," <i>J. Biol. Chem.</i> 267:9241-9247, American Society for Biochemistry and Molecular Biology, Inc. (1992)

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	AT	<u>35</u>	Sburlati, A., et al., "Novel glycoform of recombinant human IFN- β by overexpression of N-acetyl glucosaminyltransferase II," <i>Glycoconj. J.</i> 14:781, Kluwer Academic Publishing (1997)

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	AR	<u>36</u>	Sburlati, A.R., et al., "Synthesis of Bisected Glycoforms of Recombinant IFN- β by Overexpression of β -1,4-N-Acetylglucosaminyltransferase III in Chinese Hamster Ovary Cells," <i>Biotechnol. Prog.</i> 14:189-192, American Chemical Society (Mar-Apr 1998)
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>39</u>	Surfus, J.E., et al., "Anti-Renal-Cell Carcinoma Chimeric Antibody G250 Facilitates Antibody-Dependent Cellular Cytotoxicity with In Vitro and In Vivo Interleukin-2-Activated Effectors," <i>J. Immunother. Emphasis Tumor Immunol.</i> 19:184-191, Lippincott-Raven Publishers (1996)
	AS	<u>39</u>	Tabas, I., and Kornfeld, S., "Purification and Characterization of a Rat Liver Golgi α -Mannosidase Capable of Processing Asparagine-linked Oligosaccharides," <i>J. Biol. Chem.</i> 254:11655-11663, American Society for Biochemistry and Molecular Biology, Inc. (1979)
	AT	<u>39</u>	Takamatsu, N., et al., "Expression of bacterial chloramphenicol acetyltransferase gene in tobacco plants mediated by TMV-RNA," <i>EMBO J.</i> 6:307-311, IRL Press Limited (1987)

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FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1975.0010004/TJS	APPLICATION NO. 10/633,699
	APPLICANT Umaña et al.	
	FILING DATE August 5, 2003	GROUP 1646

U.S. PATENT DOCUMENTS

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	AR	<u>40</u>	Takeda, S-i. et al., "Construction of chimaeric processed immunoglobulin genes containing mouse variable and human constant region sequences," <i>Nature</i> 314:452-454, Nature Pub. Co. (1985)
	AS	<u>40</u>	Tanemura, et al., "Reduction of the Major Swine Xenoantigen GAL α (1,3)GAL by Transfection of N-Acetylglucosaminyl Transferase III (GnT-III) Gene," <i>Transplantation Proceedings</i> 29:891-892 (1997)
	AT	<u>40</u>	Taniguchi, N., et al., "Glycosyltransferase Assays Using Pyridylaminated Acceptors: N-Acetylglucosaminyltransferase III, IV, and V," <i>Meth. Enzymol.</i> 179:397-408, Academic Press, Inc. (1989)

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	AR	<u>41</u>	Trill, J.J., et al., "Production of monoclonal antibodies in COS and CHO cells," <i>Curr. Opin. Biotechnol.</i> 6:553-560, Current Biology Ltd. (1995)
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	AT	<u>41</u>	Varki, A., "Biological roles of oligosaccharides: all of the theories are correct," <i>Glycobiology</i> 3:97-130, Oxford University Press (1993)

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	AR	<u>42</u>	Velasco, A., et al., "Cell Type-dependent Variations in the Subcellular Distribution of α -Mannosidase I and II," <i>J. Cell. Biol.</i> 122:39-51, Rockefeller University Press (1993)
	AS	<u>42</u>	Verma, I.M., et al., "Gene therapy--promises, problems and prospects," <i>Nature</i> 389:239-242, Nature Pub. Co. (1997)
	AT	<u>42</u>	Watson, E., et al., "Structure determination of the intact major sialylated oligosaccharide chains of recombinant human erythropoietin expressed in Chinese hamster ovary cells," <i>Glycobiology</i> 4:227-237, Oxford University Press (1994)

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	AR	<u>43</u>	Wiest, D.L., et al., "Membrane Biogenesis during B Cell Differentiation: Most Endoplasmic Reticulum Proteins are Expressed Coordinately," <i>J. Cell. Biol.</i> 110:1501-1511, Rockefeller University Press (1990)
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	AT	<u>43</u>	Wyss, D.F., and Wagner, G., "The structural role of sugars in glycoproteins," <i>Curr. Opin. Biotechnol.</i> 7:409-416, Current Biology Ltd. (1996)

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	AR	<u>44</u>	Yamaguchi, N., and Fukuda, M.N., "Golgi Retention Mechanism of β -1,4-Galactosyltransferase," <i>J. Biol. Chem.</i> 270:12170-12176, American Society for Biochemistry and Molecular Biology, Inc. (1995)
	AS	<u>44</u>	Yoshimura, M., et al., "Suppression of lung metastasis of B16 mouse melanoma by N-acetylglucosaminyltransferase III gene transfection," <i>Proc. Natl. Acad. Sci.</i> 92:8754-8758, National Academy of Sciences (1995)
	AT	<u>44</u>	Yu Ip, C.C., et al., "Structural Characterization of the N-Glycans of a Humanized Anti-CD18 Murine Immunoglobulin G," <i>Arch. Biochem. Biophys.</i> 308:387-399, Academic Press, Inc. (1994)

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	<u>45</u>	United States Application No. 10/633,697, Umaña et al., filed August 5, 2003 (NOT PUBLISHED)
	AS	<u>45</u>	International Search Report for International Application No. PCT/US99/08711 mailed on August 17, 1999, United States Patent Office, Washington, DC
	AT	<u>45</u>	Search Report of Subject Search Conducted by Swiss Federal Institute of Intellectual Property Concerning WO 99/54342 (published international application corresponding to U.S. Appl. No. 08/294,548) dated July 18, 2001

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	<u>46</u>	English language abstract of Japanese Patent No. JP 09084582 A, Derwent WPI Accession No. 1997-253000 [23] (March 1997)
	AS	<u>46</u>	English language abstract of German Patent No. DE 19546680 A1, Derwent WPI Accession No. 1997-321072 [30] (June 1997)
	AT	<u>46</u>	English language abstract of International Patent Publication No. WO 00/52135 A2, Derwent WPI Accession No. 2000-572178 [53] (September 2000)

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	AR	<u>47</u>	English language abstract of International Patent Publication No. WO 00/53730 A2, Derwent WPI Accession No. 2000-594316 [56] (September 2000)
	AS	<u>47</u>	English language abstract of International Patent Publication No. WO 01/29242 A2, Derwent WPI Accession No. 2001-290925 [30] (April 2001)
	AT	<u>47</u>	English language abstract of European Patent Publication No. 585 083 A1, Derwent WPI Accession No. 1994-067563 [09] (1994)

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AR	<u>48</u>	English language abstract of International Patent Publication No. WO 94/12646 A1, Derwent WPI Accession No. 1994-200274 [24] (1994)
AS	<u>48</u>	English language abstract of European Patent Publication No. 481 790 A, Derwent WPI Accession No. 1992-134048 [17] (1992)
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AR	<u>49</u>	English language abstract of International Patent Publication No. WO 97/34632 A1, Derwent WPI Accession No. 1997-479995 [44] (September 1997)	
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AR	<u>50</u>	English language abstract of International Patent Publication No. WO 96/13516 A1, Derwent WPI Accession No. 1996-239446 [24] (1996)
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